

---

## UNITED “BRIGHT YELLOW” ALLOY # 794

Thank you for using UNITED’S alloys.

UNITED’S # 794 ALLOY is designed for **18 K yellow gold casting & fabrication**, which produces an **Bright Yellow color**.

You should obtain excellent results by following a few simple instructions.

### MELTING

We do recommend pre-alloying all alloy and fine gold with aggressive stirring & fluxing to assure a uniform mixture.

<b>Step : 1</b>	Pre- Alloying (Fine gold + alloy) Temperature	<b>1050° - 1070° C</b> <b>1922° - 1958° F</b>
<b>Step : 2</b>	Casting Temperature for 18 K Alloyed Grain	<b>1030° - 1040° C</b> <b>1886° - 1904° F</b>

**NOTE: Melt temperature may vary with type of unit. This alloy is designed for Casting and Fabrication ( Rolling , Wire, Tube, Sheet).**

### FLASK TEMPERATURE

We recommend a slightly higher flask temperature for 18 K.

### FLUXING

Boric Acid is the recommended flux. Use as little flux as possible. Do not use carbon fluxes or any fluxes designed for refining; i.e., soda ash, saltpeter, etc. Avoid flux in bottom pour automatic casting units.

### QUENCH TIME

**15 - 20 minutes. ( Quench Button first ).**

### INVESTMENT REMOVAL

Most standard investment removers will successfully remove the investment powder. Fluoric-based investment removers are the best for removing the silicon oxide invisible coating. Use of aggressive acids causes stress corrosion and surface damage and is not recommended. **UNITED’S Brite-Cast™ Investment Remover works effectively in removing fire scale as well as preventing stress corrosion or surface damage of the cast piece.**

### REMELTING

We recommend 50% rejuvenation for re-melting.

### TECHNICAL ASSISTANCE

Always available... Call 1-800-999-3463 / 1-800-999-FINE  
E-mail / [doc@unitedpmr.com](mailto:doc@unitedpmr.com) Web-Site / [www.unitedpmr.com](http://www.unitedpmr.com)

---

**2781 Townline Road, Alden, NY 14004, USA.**  
**Phone : (800) 999-3463; International Phone : +1-(716)-683-8334**  
**Fax : (800) 533-6657; International Fax : +1-(716)-683-5433**  
**E mail: [sales@unitedpmr.com](mailto:sales@unitedpmr.com); Website: [www.unitedpmr.com](http://www.unitedpmr.com)**